

Title (en)  
Constellation design for a multiple access communication systems

Title (de)  
Konstellationsentwurf für Mehrzugangsvermittlungssysteme

Title (fr)  
Conception de constellation pour systèmes de communication à accès multiple

Publication  
**EP 1469628 A3 20070418 (EN)**

Application  
**EP 04076076 A 20040406**

Priority  
US 41478403 A 20030416

Abstract (en)  
[origin: EP1469628A2] A channel encoder converts alphabet symbols into a preselected geometric representation of a hexagonal lattice known as a symbol constellation. A channel decoder converts the received symbol constellation into a replication of the alphabet symbols. Each user has a specially defined symbol set that allows the decoding complexity to grow linearly with the number of users.

IPC 8 full level  
**H04L 5/02** (2006.01); **H04L 5/12** (2006.01); **H04L 27/34** (2006.01); **H04L 27/38** (2006.01)

CPC (source: EP US)  
**H04L 5/02** (2013.01 - EP US); **H04L 5/12** (2013.01 - EP US); **H04L 27/3405** (2013.01 - EP US); **H04L 27/38** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL HR LT LV MK

DOCDB simple family (publication)  
**EP 1469628 A2 20041020; EP 1469628 A3 20070418**; US 2004209570 A1 20041021; US 6985699 B2 20060110

DOCDB simple family (application)  
**EP 04076076 A 20040406**; US 41478403 A 20030416